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* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

 NEWS  1           Web Page for STN Seminar Schedule - N. America
 NEWS  2  JAN 02   STN pricing information for 2006 now available
 NEWS  3  JAN 16   CAS patent coverage enhanced to include exemplified
                   prophetic substances
 NEWS  4  JAN 20   USPATFULL, USPAT2, and USPATOLD enhanced with new
                   custom IPC display formats
 NEWS  5  JAN 20   MARPAT searching enhanced
 NEWS  6  JAN 20   USGENE now provides USPTO sequence data within 3 days
                   of publication
 NEWS  7  JAN 20   TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS  8  JAN 20   MEDLINE and LMEDLINE reloaded with enhancements
 NEWS  9  FEB 08   STN Express, Version 8.3, now available
 NEWS 10  FEB 20   PCI now available as a replacement to DPCI
 NEWS 11  FEB 25   IFIREF reloaded with enhancements
 NEWS 12  FEB 25   IMSPRODUCT reloaded with enhancements
 NEWS 13  FEB 29   WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                   U.S. National Patent Classification
 NEWS 14  MAR 31   IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                   IPC display formats
 NEWS 15  MAR 31   CAS REGISTRY enhanced with additional experimental
                   spectra
 NEWS 16  MAR 31   CA/CAplus and CASREACT patent number format for U.S.
                   applications updated
 NEWS 17  MAR 31   LPCI now available as a replacement to LDPCI
 NEWS 18  MAR 31   EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 19  APR 04   STN AnaVist, Version 1, to be discontinued
 NEWS 20  APR 15   WPIDS, WPINDEX, and WPIX enhanced with new
                   predefined hit display formats
 NEWS 21  APR 28   EMBASE Controlled Term thesaurus enhanced
 NEWS 22  APR 28   IMSRESEARCH reloaded with enhancements

 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2006

 NEWS HOURS     STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN     Welcome Banner and News Items
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11/60C,551

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:24:27 ON 10 MAY 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:24:50 ON 10 MAY 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAY 2008 HIGHEST RN 1020227-00-2
DICTIONARY FILE UPDATES: 9 MAY 2008 HIGHEST RN 1020227-00-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\11602551l.str

chain nodes :
6 7 8 9 11 13 15 16
ring nodes :
1 2 3 4 5
chain bonds :
2-6 3-13 4-9 5-15 5-16 6-7 6-8 8-11
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
3-13 4-9 5-15 5-16 6-7 6-8 8-11
exact bonds :
1-2 1-5 2-3 2-6 3-4 4-5
isolated ring systems :
containing 1 :

G1:O,Ak

G2:N,X,Ak

G3:Cb,Ak,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
11:CLASS 13:CLASS 15:CLASS 16:Atom

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 14:25:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 161 TO ITERATE

100.0% PROCESSED 161 ITERATIONS 7 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2459 TO 3981
PROJECTED ANSWERS: 7 TO 298

L2 7 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 14:25:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2853 TO ITERATE

100.0% PROCESSED 2853 ITERATIONS 106 ANSWERS
SEARCH TIME: 00.00.01

L3 106 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.36	178.57

FILE 'CAPLUS' ENTERED AT 14:25:24 ON 10 MAY 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 10 May 2008 VOL 148 ISS 20
FILE LAST UPDATED: 9 May 2008 (20080509/ED)

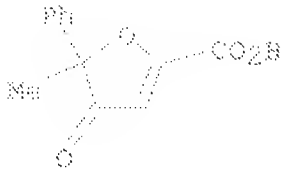
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3
L4 42 L3

=> d l4 ibib hitstr abs 1-42

L4 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:926825 CAPLUS
DOCUMENT NUMBER: 140:228444
TITLE: Quantitative relationship between rat intestinal absorption and Abraham descriptors
AUTHOR(S): Zhao, Yuan H.; Abraham, Michael H.; Hersey, Anne; Luscombe, Chris N.
CORPORATE SOURCE: Department of Chemistry, University College London, London, WC1H 0AJ, UK
SOURCE: European Journal of Medicinal Chemistry (2003), 38(11-12), 939-947
CODEN: EJMCA5; ISSN: 0223-5234
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 72420-38-3, Acifran
RL: PKT (Pharmacokinetics); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(quant. structure-activity relationship (QSAR) between rat intestinal drug absorption and Abraham descriptors)
RN 72420-38-3 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl- (CA INDEX NAME)

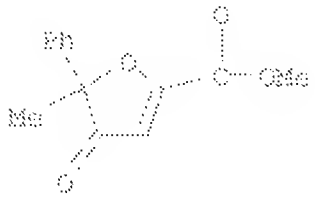


AB Literature data on the intestinal absorption of 158 drug and drug-like comp.ds. in rats have been collected, and Abraham descriptors for the set of drugs have been calculated using the method of Platts and Abraham et al. Results show that there is a significant relationship between rat intestinal absorption and the Abraham descriptors. In agreement with the human intestinal absorption model, the dominant descriptors in the rat model are the drug hydrogen bond acidity and basicity. In order to compare the absorption models in humans and rats, the absorption model developed from rats was used to predict the absorption in humans. The rat intestinal absorption model is similar to the human absorption model, and data on rats can effectively be used to predict human intestinal absorption.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:587086 CAPLUS
DOCUMENT NUMBER: 121:187086
ORIGINAL REFERENCE NO.: 121:33849a,33852a
TITLE: NMR studies of drugs. Applications of achiral and chiral lanthanide shift reagents to acifran methyl ester. LSR binding to a multifunctional substrate
AUTHOR(S): Gray, Lovett; Rothchild, Robert
CORPORATE SOURCE: John Jay Coll. Criminal Justice, City Univ. New York, New York, 10019-1139, USA
SOURCE: Spectroscopy Letters (1994), 27(7), 935-54
CODEN: SPLEBX; ISSN: 0038-7010
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 72429-82-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (achiral and chiral NMR lanthanide shift reagents binding to acifran Me ester)

RN 72420-82-4 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, methyl ester
(CA INDEX NAME)



IT 72420-38-3, (±)-Acifran
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification; achiral and chiral NMR lanthanide shift reagents binding to acifran Me ester)
RN 72420-38-3 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl- (CA INDEX NAME)

AB The NMR spectra of (±)-acifran Me ester was studied by using achiral and chiral Europium shift reagents (e.g., Clever's reagent, Eu(FFC)3] for potential determination of enantiomeric excess. The shift magnitudes were interpreted as consistent with major lanthanide binding at the 4-oxo carbonyl of the mol.

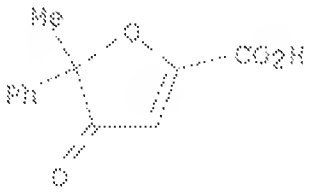
L4 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1982:527417 CAPLUS
DOCUMENT NUMBER: 97:127417
ORIGINAL REFERENCE NO.: 97:21145a,21148a
TITLE: Hypolipidemic 4,5-dihydro-4-oxo-5,5-disubstituted-2-furancarboxylic acids
AUTHOR(S): Jirkovsky, Ivo; Cayen, Mitchell N.
CORPORATE SOURCE: Biochem. Dep., Ayerst Lab., Montreal, QC, H3C 3J1, Can.
SOURCE: Journal of Medicinal Chemistry (1982), 25(10), 1154-6

CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:127417
IT 77103-94-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion to free base)
RN 77103-94-7 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, (+)-, compd.
with (R)-α-methylbenzenemethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 77103-91-4
CMF C12 H10 O4

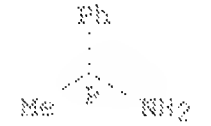
Rotation (+).



CM 2

CRN 3886-69-9
CMF C8 H11 N

Absolute stereochemistry. Rotation (+).



IT 77154-54-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and free base from)
RN 77154-54-2 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, (-)-, compd.
with (S)-α-methylbenzenemethanamine (1:1) (9CI) (CA INDEX NAME)

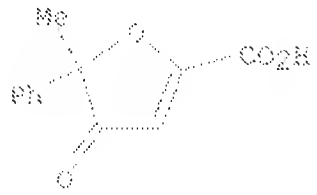
CM 1

CRN 77103-92-5

11/60C,551

CMF C12 H10 O4

Rotation (-).

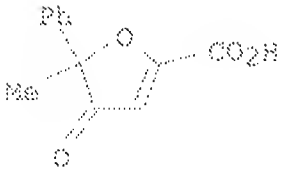


CM 2

CRN 2627-86-3
CMF C8 H11 N

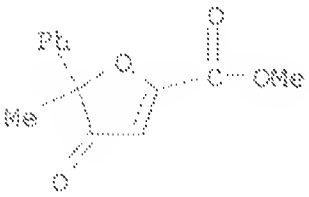
Absolute stereochemistry. Rotation (-).

IT 72420-38-3P 72420-40-7P 72429-82-4P
77103-87-8P 77103-91-4P 77103-92-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); BIOL (Biological
study); PREP (Preparation)
(preparation and hypolipidemic activity of)
RN 72420-38-3 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl- (CA INDEX
NAME)

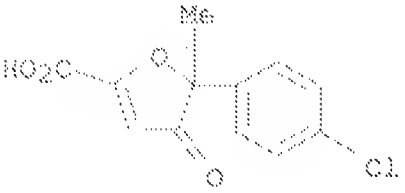


RN 72420-40-7 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-(1-methylethyl)-4-oxo-5-phenyl- (CA
INDEX NAME)

RN 72429-82-4 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, methyl ester
(CA INDEX NAMES)

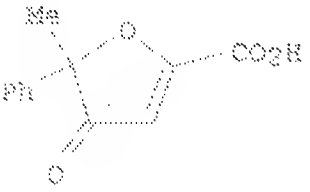


RN 77103-87-8 CAPLUS
CN 2-Furancarboxylic acid, 5-(4-chlorophenyl)-4,5-dihydro-5-methyl-4-oxo-
(CA INDEX NAMES)



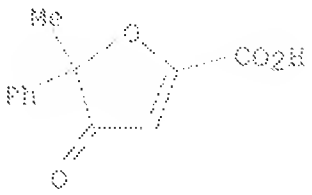
RN 77103-91-4 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, (+)- (CA INDEX NAMES)

Rotation (+).

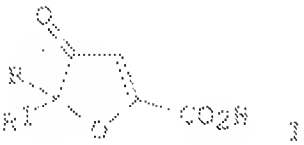


RN 77103-92-5 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, (-)- (CA INDEX NAMES)

Rotation (-).



GI



AB Cyclocondensation of RR1C(OH)COMe (R, R1 = Me, Me; Me, Ph; Me, 4-ClC6H4; Me2CH, Ph; RR1 = 3,4-dihydro-1(2H)-naphthalenylidene) with RtO2CCO2Et gave furancarboxylic acids I. I (R, R1 = Me, Ph) showed hypolipidemic activity superior to that of nicotinic acid and clofibrate.

L4 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1980:41746 CAPLUS
DOCUMENT NUMBER: 92:41746
ORIGINAL REFERENCE NO.: 92:6961a,6964a
TITLE: 4,5-Dihydro-4-oxofuran-2-carboxylic acid derivatives
INVENTOR(S): Jirkovsky, Ivo L.; Dvornik, Dushan; Cayen, Mitchell N.
PATENT ASSIGNEE(S): American Home Products Corp., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4169202	A	19790925	US 1978-912798	19780605
AU 7946892	A	19791213	AU 1979-46892	19790509

AU 537177	B2	19840614		
US 4244958	A	19810113	US 1979-38028	19790510
EP 6305	A1	19800109	EP 1979-300926	19790524
EP 6305	B1	19820811		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AT 1449	T	19820815	AT 1979-300926	19790524
WO 8000025	A1	19800110	WO 1979-US376	19790529
W: DK, JP, SU				
JP 55500473	T	19800731	JP 1979-500920	19790529
JP 01008629	B	19890214		
CA 1118777	A1	19820223	CA 1979-328790	19790531
ZA 7902773	A	19810128	ZA 1979-2773	19790605
HU 22733	A2	19820628	HU 1979-AE575	19790605
HU 180199	B	19830228		
DK 8000375	A	19800129	DK 1980-375	19800129
DK 165005	B	19920928		
DK 165005	C	19930208		

PRIORITY APPLN. INFO.:

US 1978-912798	A	19780605
EP 1979-300928	A	19790524
WO 1979-US376	W	19790529

OTHER SOURCE(S): MARPAT 92:41746

IT 72420-38-3P

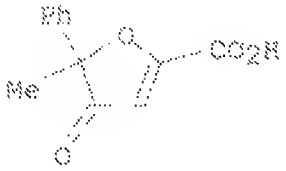
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation and esterification of)

RN 72420-38-3 CAPLUS

CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl- (CA INDEX NAME)



IT 72420-39-4P 72420-40-7P 72420-44-1P
72420-45-2P 72420-46-3P 72420-49-6P
72429-62-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

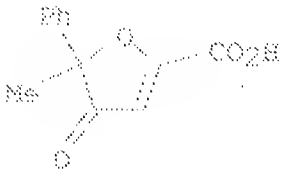
RN 72420-39-4 CAPLUS

CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, compd. with

benzenemethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 72420-38-3
CMF C12 H10 O4

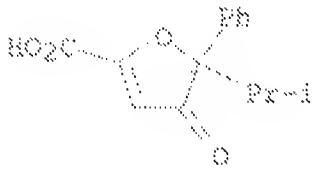


CM 2

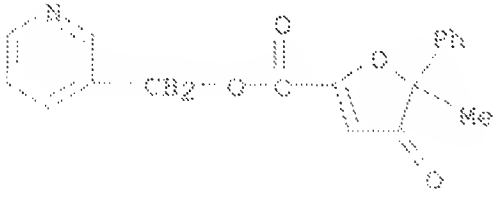
CRN 100-46-9
CMF C7 H9 N

H_2N-CH_2-Ph

RN 72420-40-7 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-(1-methylethyl)-4-oxo-5-phenyl-
(CA
INDEX NAME)



RN 72420-44-1 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-,
3-pyridinylmethyl ester (CA INDEX NAME)

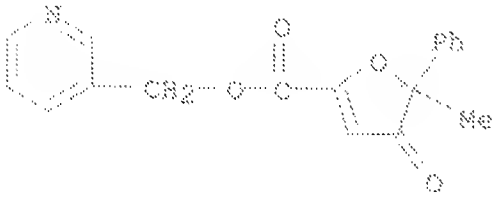


RN 72420-45-2 CAPLUS

CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, 3-pyridinylmethyl ester, (2E)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

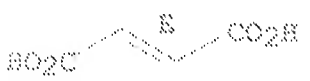
CRN 72420-44-1
CMF C18 H15 N O4



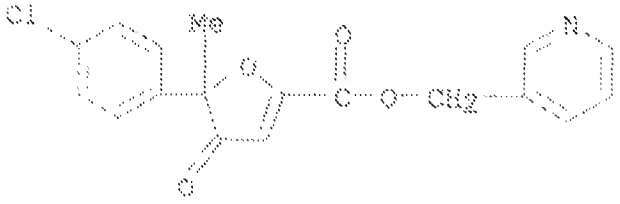
CM 2

CRN 110-17-8
CMF C4 H4 O4

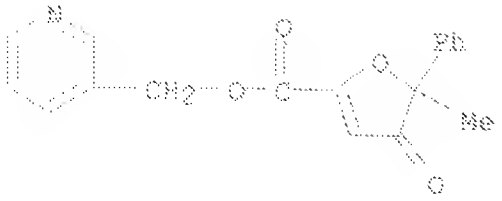
Double bond geometry as shown.



RN 72420-46-3 CAPLUS
CN 2-Furancarboxylic acid, 5-(4-chlorophenyl)-4,5-dihydro-5-methyl-4-oxo-, 3-pyridinylmethyl ester (CA INDEX NAME)

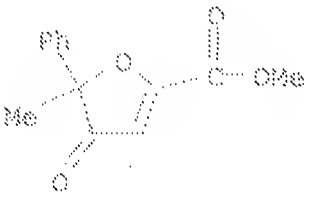


RN 72420-49-6 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, 3-pyridinylmethyl ester, hydrochloride (9CI) (CA INDEX NAME)

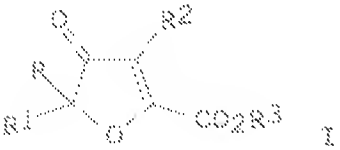


● HCl

RN 72429-62-4 CAPLUS
CN 2-Furancarboxylic acid, 4,5-dihydro-5-methyl-4-oxo-5-phenyl-, methyl ester
(CA INDEX NAME)



GI



I

AB Furan derivs. I (R, R1 = alkyl, cycloalkyl, alkoxy, Ph, etc.; R2 = H, alkyl; R3 = H, alkyl, etc.) and their salts, effective hypolipemics at 1.0 mmol/kg-day in rats, were prepared Thus, to a stirred suspension of 10.5 g NaH in mineral oil was added 16 g di-Et oxalate and 16.4 g 3-hydroxy-3-phenyl-2-butanone in THF, the solution heated 16 h at 55-60°, cooled, and poured into H2O, NaOH added to pH 11, and the mixture kept 24 h to give 20 g I (R = Me, R1 = Ph, R2 = R3 = H), which (0.4 g) was esterified with MeOH-H2SO4 to give 0.32 g Me ester (R = R3 = Me, R1 = Ph, R2 = H). Similarly prepared were 9 addnl. I and salts.